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Morbidity and Mortality Weekly Report

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U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER 634-5131

For release March 29, 1963 ATLANTA 22, GEORGIA Vol. 12, No. 12

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED MARCH 23, 1963

INFLUENZA – One or more outbreaks of influenza-like disease have now been reported from 38 States and the District of Columbia. Evidence of influenza has now appeared on the West Coast with serologic evidence of influenza A_2 infection occurring in sporadic cases in northern California and an outbreak of influenza-like illness reported from San Joaquin County in north central California for the first time this week. Influenza A_2 virus has been isolated or confirmed by serologic titer rise as the causative agent of one or more outbreaks in 27 States and the District of Columbia. Reporting confirmed outbreaks for the first time this week are the States of Arizona and Kentucky. Outbreaks are now subsiding in a number of areas in the Eastern and Middle Western United States. The number of pneumonia-influenza deaths reported weekly for 108 cities has remained above the epidemic threshold since the week ending January 12, but a sharp downswing from the peak reached during the week ending March 22 has occurred this week.

Arizona – Outbreaks of influenza-like illness have been reported from the San Carlos, Apache and Papago Indian Reservations, beginning about March 14. Public Health Service outpatient clinics at Sells, San Carlos, and White River have reported at least 200 cases to date. Illness has been of acute onset with fevers of 102-103° F. of 2-4 day duration. All age groups have been affected. *(Reported by Dr. W. S. Baum, Area Medical Officer in Charge, Public Health Service, Division of Indian Health, Phoenix, Arizona).*

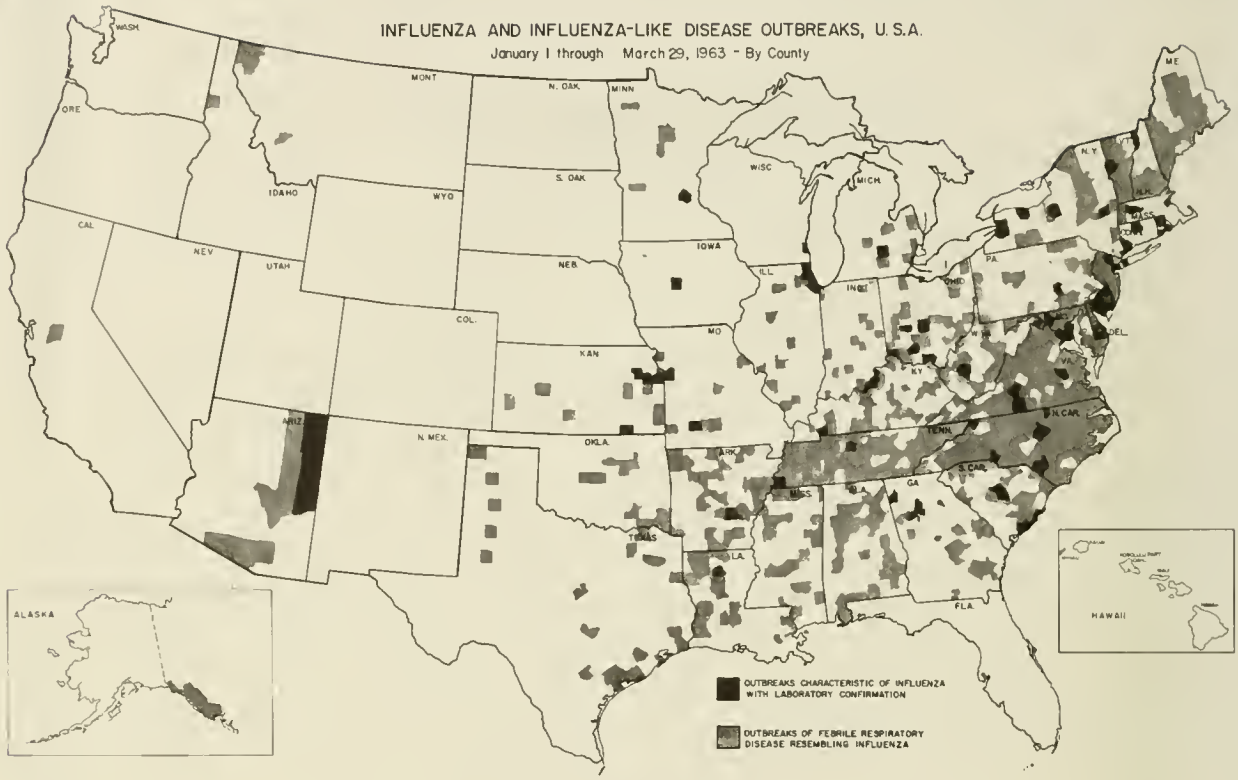
Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous week)

Disease	12th Week			Cumulative First 12 weeks		
	Ended March 23, 1963	Ended March 24, 1962	Median 1958 - 1962	1963	1962	Median 1958 - 1962
Aseptic meningitis	15	16	---	267	196	---
Brucellosis	11	7	10	76	70	147
Diphtheria	7	6	6	79	129	197
Encephalitis, infectious	28	30	34	261	312	302
Hepatitis, infectious and serum	912	1,223	763	12,992	16,804	8,758
Measles	14,721	19,241	16,500	129,187	149,146	149,146
Meningococcal infections	61	57	60	691	628	685
Poliomyelitis, total	1	4	14	36	72	200
Paralytic	1	3	6	32	45	113
Nonparalytic	-	-	5	2	12	61
Unspecified	-	1	3	2	15	26
Streptococcal sore throat and Scarlet fever	11,207	8,926	---	120,142	105,645	---
Tetanus	3	1	---	39	30	---
Tularemia	1	3	---	49	58	---
Typhoid fever	11	7	9	76	98	120
Typhus fever, tick-borne, (Rocky Mountain spotted)	-	-	---	-	3	---
Rabies in Animals	89	125	102	783	923	989

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	1	Psittacosis: Calif. - 1	18
Botulism: Mich. - 3	5	Rabies in Man:	-
Malaria: Md. - 1, N.C. - 1	24	Smallpox:	-
Plague:	-	Typhus, murine:	2



Springerville – Follow-up: Five influenza A_2 isolates have been obtained from individuals ill with influenza-like illness during the recent outbreak in Springerville. (MMWR, Vol. 12, No. 9).

(Reported by Dr. Lloyd N. Farner, Commissioner of Public Health, Arizona State Department of Health).

Colifornio – An outbreak of influenza-like illness has occurred in a State hospital in San Joaquin County. The outbreak began about March 17, and about 200 cases in the total population of 4,000 have occurred to date. Illness has been characterized by the acute onset of fever, cough, and myalgia of 2-4 days duration. Laboratory studies are presently under way. In the last 3 weeks significant titer rises to influenza A_2 virus have been demonstrated in paired sera from 8 sporadic cases in 5 counties in the northern part of the State.

(Reported by Dr. Philip K. Condit, Chief, Bureau of Communicable Diseases, California Department of Public Health).

Georgio – Outbreaks of influenza-like illness have been reported in 8 additional counties – mostly in the central and east central portions of the State. These outbreaks have been community wide and school closings have occurred in several areas. Serologic evidence of influenza A_2 infection has been obtained from 2 cases in Floyd County and one case each from Pierce and Bibb Counties.

(Reported by Dr. W. J. Murphy, Director, Epidemiology, Georgia Department of Public Health)

Kentucky – Two or more laboratory confirmed cases have been reported from outbreaks in Jefferson, Trigg, and Trimble Counties. Epidemics have now subsided in most areas of the State.

(Reported by J. Clifford Todd, State Epidemiologist, Kentucky Department of Health).

Moine – Increased incidence of influenza-like illness has been reported from several towns in Waldo County for the week ending March 16. In addition, 250 cases of influenza-like illness have been reported from Southern Hancock County. One town in northern Penobscot County reported an elementary school closing on March 14 and 15 with large numbers of cases.

(Reported by Dr. Dean H. Fisher, Director, CDC, Bureau of Health, Maine Department of Health and Welfare).

Montono – An outbreak of influenza-like illness, thus far confined to a single small community, has been reported from Deer Lodge County in the western part of the State. Typical cases were first seen in early March, with the peak of the epidemic occurring during the week end-

ing March 16. All age groups appeared to be affected about equally. Laboratory specimens have been collected and are currently being processed at the State laboratories in Helena.

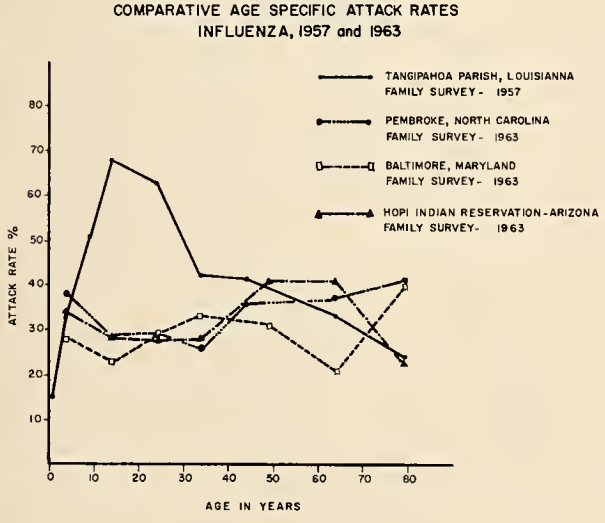
(Reported by Dr. Mary E. Soules, Director, Disease Control, Montana State Board of Health).

Rhode Island – An outbreak of influenza-like illness has been reported among students at the University of Rhode Island (Washington County). Increased incidence of acute respiratory disease was first noticed in early February and approximately 200 cases were estimated to have occurred. Paired sera from 3 ill individuals at the school have shown significant rises in influenza A_2 antibody titer.

(Reported by Dr. James E. Bowes, Acting Director, Division of Epidemiology, Rhode Island Department of Health).

Comparative Influenza Age Specific Attack Rates

The figure below shows age specific attack rate curves for a school family illness survey undertaken in Tangipahoa Parish, La., during the influenza A_2 epidemic of 1957 in comparison with curves from samples in 3 similar surveys undertaken during the current 1963 influenza epidemic. Of particular interest is the lack of high attack rates seen in the junior and senior high school age groupings during the current season when compared with the 1957 curve.



EPIDEMIOLOGICAL REPORTS

Botulism – Wayne County, Michigan

A tuna fish salad, prepared from commercially canned tuna fish, which contained botulism toxin Type E, resulted in clinical illness in three women who ate of the salad. Two of the victims died.

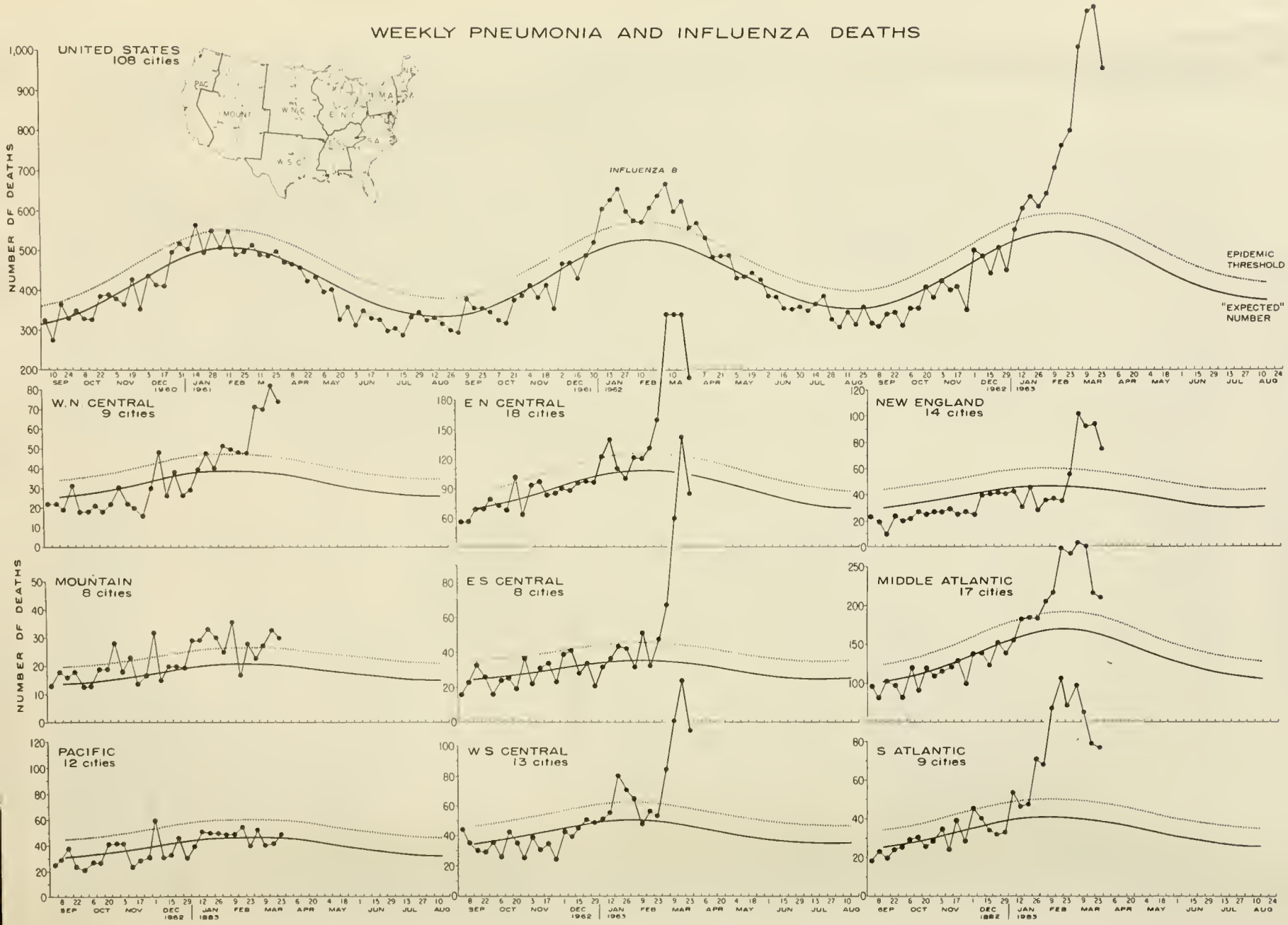
On Thursday morning, March 14, 1963, between 10 and 11 A.M., two of the women (patients A and B) had prepared and eaten tuna salad sandwiches from a freshly opened 6½ oz. can of tuna fish. At approximately 12:30 P.M. the same day, the third woman (patient C) arrived for lunch, but consumed only a small portion (approximately one teaspoon) of the tuna fish salad which remained.

Onset of illness occurred in patients A and B between 6:30-7:00 P.M. on March 14, approximately within 8 hours after eating the lunch. Patient A first complained of not being able to focus her eyes and shortly thereafter complained of feeling severely ill with difficult breathing. Throughout the evening and night, she experienced intermittent vomiting, along with the continued complaints of not being able to breathe and see. Although extremely weak, there was no obvious paralysis of extremities or face. There was no diarrhea, fever, or chills at any time during the illness. The patient became increasingly weak, with difficult breathing, and expired on March 15, about 12 hours after onset of symptoms.

Patient B, also complained first of visual difficulty followed by vertigo and marked weakness. During the night of March 14, she vomited frequently and on March 15 experienced difficulty in speaking. She was admitted to the hospital at 9:20 A.M. on March 15. Physical examination revealed her to be acutely ill with generalized muscular weakness and a peculiar sallow color. Temperature was 96.2°F., pulse 92, respirations 16, and blood pressure of 115/80. Positive physical findings included dilated pupils and bilateral ptosis. There was generalized muscle weakness, primarily of the face and neck, with slurred speech and weak voice. Respiratory excursion was poor and her abdomen was flaccid without tenderness. Deep tendon reflexes were symmetrical and hypoactive. No sensory loss was noted. The patient could hold her head up and elevate her arms only briefly. Provisional diagnosis was botulism and she was given five million units each of botulinus antitoxin A and B. Because of poor respiratory exchange, a tracheostomy was performed on March 15. On Sunday, March 17, she experienced cardiac arrest which responded to closed chest resuscitation. On Monday, March 18, she received five million units of botulism antitoxin Type E intramuscularly and five million units intravenously without response. She remained semicomatose throughout the remainder of her hospital course until she expired on March 19.

Patient C, who had ingested only a small amount of the salad, although asymptomatic, was hospitalized and received botulinus antitoxin A and B on Friday afternoon, March 15. While in the emergency room at 6:00 P.M., she became ill with vomiting and difficult breathing when lying down. She experienced no other complaints although she was noted to have unequal pupils. On Sunday, March 17, she was discharged with no complaints.

(Continued on page 98)


WEEKLY PNEUMONIA AND INFLUENZA DEATHS
UNITED STATES
108 cities
NUMBER OF DEATHS
INFLUENZA B
EPIDEMIC THRESHOLD
"EXPECTED" NUMBER
W.N. CENTRAL
9 cities
E N CENTRAL
18 cities
NEW ENGLAND
14 cities
MOUNTAIN
8 cities
E S CENTRAL
8 cities
MIDDLE ATLANTIC
17 cities
PACIFIC
12 cities
W S CENTRAL
13 cities
S ATLANTIC
9 cities

Pneumonia-influenza mortality – During the week ending March 23rd, 957 pneumonia-influenza deaths were reported by the 108 cities. The number of excess deaths was 431, a decline of 154 from the 585 excess deaths reported during the previous week. The cumulative total of excess pneumonia-influenza deaths since the week ending January 5th is now 3,071. The comparable total for the 1960 epidemic was 4,021.

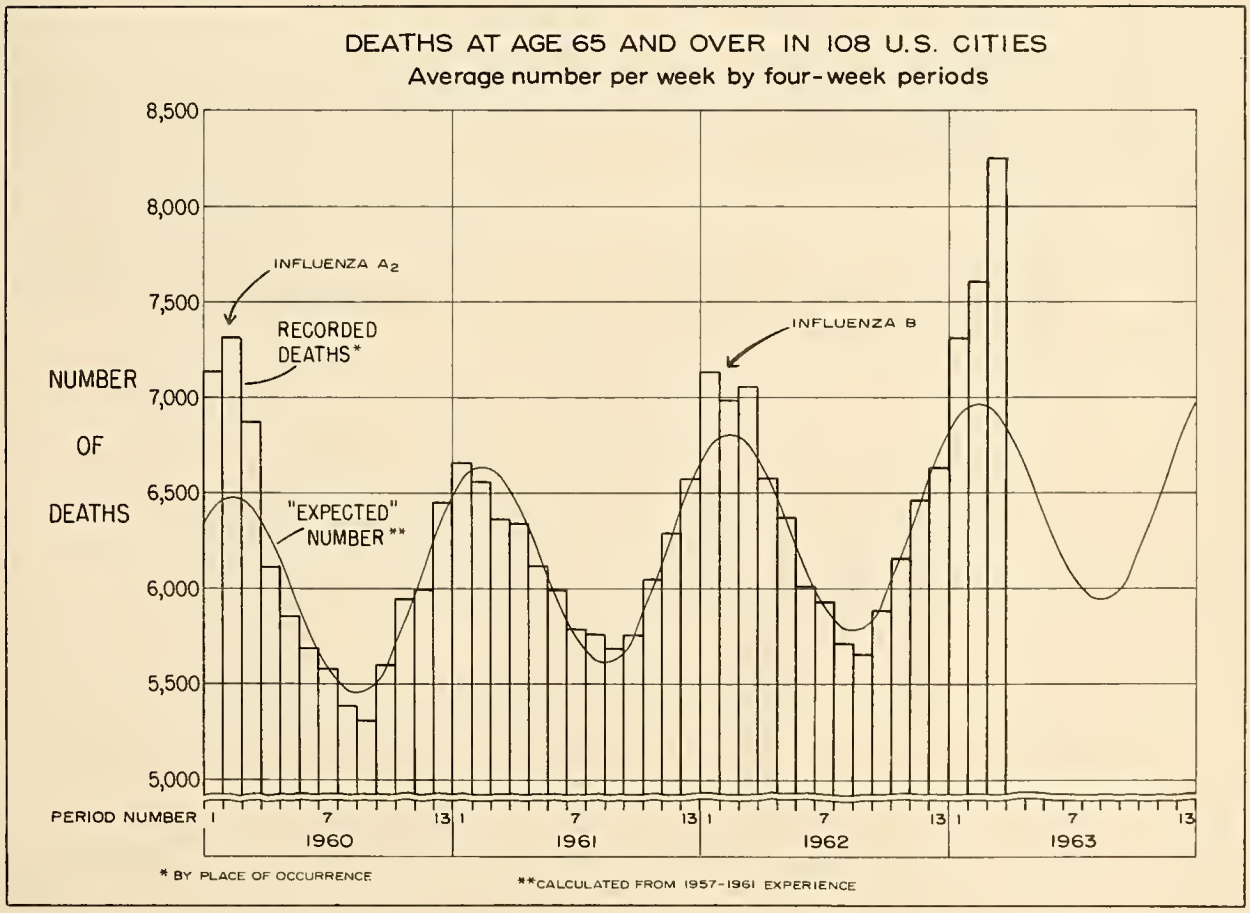
All divisions (except the Pacific which has shown no excess mortality this year) reported decreases during the week ending March 23rd, but the numbers still remain above normal levels.

Total deaths – The number of deaths from all causes reported during the week ending March 23rd was 13,422, an excess of 1,476 over the expected level for this week, but a decrease from the 1,977 excess deaths reported during the previous week. The cumulative excess for deaths from all causes since the week ending January 5th is now 15,810, a number larger than the 13,882 excess deaths from all causes reported during the comparable period of the 1960 epidemic.

Older ages – Among persons 65 years of age and older the average weekly number of deaths from all causes was 8,249 for the four-week period ending March 23rd. The total number of excess deaths during this four-week period was 5,361, a number greater than during any four-week period of the 1960 epidemic. Since January 5th the cumulative total of excess deaths at age 65 and over has reached 9,550. In 1960 the comparable total was 7,944.

DEATHS AMONG PERSONS 65 YEARS AND OVER
ALL CAUSES

	WEEK ENDING				4 Week Total	Weekly Average
	3/2	3/9	3/16	3/23		
Observed	8,576	8,369	8,294	7,758	32,997	8,249
Expected	6,946	6,926	6,899	6,865	27,636	6,909
Excess	1,630	1,443	1,395	893	5,361	1,340



(See table, page 103)

Following the death of Patient A, the empty tuna can and other materials used in preparation of lunch were examined. *Clostridium botulinus* organisms and botulinus toxin were recovered from the can of tuna involved and the intestinal contents of one of the fatal cases. Subsequent studies showed the strain to be Type E, an uncommon variety almost exclusively associated with fish.

(Reported by Harold Lambert, M.D., Associate Epidemiologist, Michigan Department of Health, Joseph G. Molner, M.D., Director, Wayne County Health Department, and a team from the Communicable Disease Center.)

Typhoid Fever – Four cases of typhoid fever in the United States, occurring among individuals returning from Zermatt, Switzerland, have been reported. (See International Notes). All have been confirmed by culture) Listed below are data concerning time of exposure in Zermatt:

LOCATION	AGE	SEX	ONSET	DATES IN ZERMATT
New York, N. Y.	24	F	March 3	February 15-23
Berkeley, Calif.	40	M	March 1	February 19-26
Hartford, Conn.	18	F	March 7	February 5-17
Allentown, Pa.	23	F	Unknown	February 16-23

Exposure appears to have been confirmed to a relatively short time during mid-February. Approximately 20 charter ski flights have returned to the United States since March 4, with over 2,000 passengers, many of whom had been in Zermatt. Additional cases of typhoid fever may be anticipated.

(Reported by: Dr. Harold Fuerst, Director, Bureau of Preventable Diseases, New York City Department of Health; Dr. Rebecca Proctor, Epidemiology Section, Bureau of Communicable Diseases, California State Department of Health; Dr. James C. Hart, Director, Division of Preventable Diseases, Connecticut State Department of Health; and, Dr. William D. Schrack, Director, Division of Communicable Disease Control, Pennsylvania State Department of Health.)

INTERNATIONAL NOTES – QUARANTINE MEASURES

Typhoid – Zermott, Switzerlond

The following information has been reported by Dr. Reimert Ravenholt, Epidemiologist, Division of Foreign Quarantine, Public Health Service, Paris, and is based in part on an official report from the Swiss Ministry of Health dated March 23, 1963

The first known case of typhoid fever in Zermatt developed in a laborer who arrived in Valais Canton on February 6, 1963. He became ill on February 13 and was hospitalized in a Zermatt clinic until February 25. Typhoid fever was first suspected by the Zermatt physicians on March 10. A bacteriologist from Geneva began inquiries on March 12. At that time from 10 to 20 suspect cases were known. By March 20, a total of 13 cases had been confirmed but source of infection had not yet been identified.

Dr. Ravenholt reports on March 26 that a total of about 250 cases have been identified in Europe Of these 180 are in Switzerland, 43 in Great Britain, 8 in West Germany, 5 in Holland, 3 in Austria, 8 in France, and 1 in Belgium. The cases in Britain, Germany, and Holland have been confirmed as *S. typhi* phage type E-1.

From limited information submitted by Dr. Ravenholt and the 4 cases in the United States (See Typhoid) the period of exposure appears to have occurred in mid-February.

FOOD AND WATER-BORNE DISEASE OUTBREAKS DURING THE PERIOD JANUARY 1 TO DECEMBER 31, 1961 (Continued)*

OUTBREAK NO.	DATE EATEN	STATE	NO. EATING MEAL	NO. EATING VEHICLE	NO. ILL	SUSPECTED VEHICLE	PROBABLE PLACE OR SOURCE OF CONTAM.	INCUBATION RANGE	REPORTED EITOLOGY	REPORTED BY
C. PERFRINGENS										
1	2/6/61	Conn.	240	Unk.	75	Roast Beef	Unknown	Unknown		V. L. Durham A. S. Browne
2	5/24/61	Calif.	49	Unk.	40	Chili Beans	School Mitchen	9-18 hrs.		J. C. Hart
3	8/27/61	Calif.	280	271	203	Steak with marinade	Picnic	3-23 hrs.		L. Legters T. Wider J. McKnight
4	8/29/61	Calif.	215	215	170	Beans	Camp Kitchen	6-12 hrs.		G. Bush P. A. Bearg
5	12/5/61	Conn.	68	Unk.	26	Gravy	Restaurant	8-14 hrs.		J. C. Hart
6	Unk./61	Conn.	17	17	9	Smoked Ham and home-made cheese	Home	8-9 hrs.		J. C. Hart
VIRAL HEPATITIS										
**3	Jan. 1961	Oregan	Unk.	Unk.	47	Water	Sewage contamination of well	21-60 days		G. Skinner
**4	Jan.-May 1961	North-eastern U.S.	Unk.	Unk.	500*	Raw Clams	Clam Beds	15-50 days		State Epidemia-lagists
**5	Nov. 18-Dec. 13 1961	Military Facility	150	Unk.	22	Potato Salad	Galley	23-48 days		R. Nauman C. Bagley H. Schlang
**6	Aug.-Dec. 1961	Oregan	Unk.	Unk.	73	Water	Sewage contamination of well	23-60* days		G. Skinner
CHEMICAL AND NOXIOUS FOODS										
**2	1/61	Calif.	2	2	2	Canned Albacore	Commercial	1 hr.	Non-specific bacterial fish spoilage	F. A. listick
3	7/23/61 7/25/61	Calif.	7	7	7	Smoked Albacare	Home	20 min.-2 hrs.	Histamine-like Fish Poisoning	J. F. Haun C. L. Voight R. C. Tetreault
4	7/25/61	Calif.	2	2	2	Salad containing toadstools	Home	2 hrs.	Muscarine (toadstools)	R. C. Tetreault M. Stelter
5	10/9/61	Calif.	4	4	4	Sukiyaki	Home	1-3 hrs.	Mushrooms	F. A. Listick
6	10/1961	Pa.	5	5	5	Graund beef and lamb	Home	15 min.	Niacin	M. Werrin

* Previous listings of outbreaks during 1961 appeared in MMWR Vol. 10, Nos. 12, 27, and 28, Vol. 11, Nos. 12 and 14, and Vol. 12, No. 4.
** Previously included in MMWR as epidemiological reports.

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

MARCH 23, 1963 AND MARCH 24, 1962

Area	Poliomyelitis, total cases				Poliomyelitis, paralytic				Poliomyelitis, nonparalytic		Aseptic Meningitis	
	12th week		Cumulative First 12 weeks		12th week		Cumulative First 12 weeks		12th week		12th week	
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962
UNITED STATES	1	4	36	72	1	3	32	45	-	-	15	16
NEW ENGLAND	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	-	1	6	28	-	1	6	15	-	-	1	-
New York	-	1	4	28	-	1	4	15	-	-	-	-
New Jersey	-	-	1	-	-	-	1	-	-	-	-	-
Pennsylvania	-	-	1	-	-	-	1	-	-	-	1	-
EAST NORTH CENTRAL	-	1	8	8	-	-	7	5	-	-	2	3
Ohio	-	-	2	4	-	-	1	4	-	-	1	-
Indiana	-	1	-	2	-	-	-	1	-	-	-	-
Illinois	-	-	4	2	-	-	4	-	-	-	-	2
Michigan	-	-	2	-	-	-	2	-	-	-	1	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	1
WEST NORTH CENTRAL	-	1	1	5	-	1	1	2	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	1	-	3	-	1	-	2	-	-	-	-
Missouri	-	-	1	2	-	-	1	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC	-	-	3	6	-	-	2	5	-	-	2	1
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	1	-	-	-	-	-	-	1	-
Virginia	-	-	-	1	-	-	-	1	-	-	-	1
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	-	-	2	1	-	-	2	1	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	1	-
Georgia	-	-	1	1	-	-	-	1	-	-	-	-
Florida	-	-	-	2	-	-	-	2	-	-	-	-
EAST SOUTH CENTRAL	-	-	2	2	-	-	1	1	-	-	3	3
Kentucky	-	-	-	-	-	-	-	-	-	-	2	3
Tennessee	-	-	-	1	-	-	-	-	-	-	-	-
Alabama	-	-	2	1	-	-	1	1	-	-	1	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL	-	-	10	12	-	-	10	9	-	-	-	1
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	9	4	-	-	9	4	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Texas	-	-	1	8	-	-	1	5	-	-	-	1
MOUNTAIN	-	-	-	5	-	-	-	4	-	-	-	-
Montana	-	-	-	2	-	-	-	1	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	2	-	-	-	2	-	-	-	-
Utah	-	-	-	1	-	-	-	1	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	1	1	6	6	1	1	5	4	-	-	7	8
Washington	-	-	-	-	-	-	-	-	-	-	-	2
Oregon	-	-	1	-	-	-	1	-	-	-	-	-
California	1	1	5	6	1	1	4	4	-	-	7	6
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	2	-	2	2	2	-	2	2	-	-	-	1

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MARCH 23, 1963 AND MARCH 24, 1962 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, infectious		Hepatitis, infectious and serum				Measles	
							12th week					
	12th week	Cumulative 12 weeks	12th week	Cumulative 12 weeks	12th week		Under 20 yr.	20 & over	Total		12th week	
	1963	1963	1963	1963	1963	1962	1963	1963	1963	1962	1963	1962
UNITED STATES	11	76	7	79	28	30	478	388	912	1,223	14,721	19,241
NEW ENGLAND	-	-	-	3	1	5	37	41	78	60	636	1,965
Maine	-	-	-	-	-	-	22	15	37	16	8	169
New Hampshire	-	-	-	-	-	-	1	3	4	10	9	38
Vermont	-	-	-	-	-	-	-	2	2	2	82	67
Massachusetts	-	-	-	2	1	1	10	11	21	18	118	939
Rhode Island	-	-	-	1	-	3	1	1	2	3	60	119
Connecticut	-	-	-	-	-	1	3	9	12	11	359	633
MIDDLE ATLANTIC	-	4	2	9	4	10	108	96	204	167	1,481	2,976
New York	-	3	2	4	2	9	43	57	100	93	746	1,654
New Jersey	-	-	-	1	-	-	13	16	29	23	268	1,036
Pennsylvania	-	1	-	4	2	1	52	23	75	51	467	286
EAST NORTH CENTRAL	1	5	1	6	5	2	79	51	135	320	6,119	2,265
Ohio	-	-	-	-	1	-	24	21	47	89	555	308
Indiana	-	-	-	2	-	-	16	1	17	42	152	418
Illinois	1	5	-	2	2	1	14	13	28	97	418	598
Michigan	-	-	1	1	2	1	23	13	36	86	1,447	707
Wisconsin	-	-	-	1	-	-	2	3	7	6	3,547	234
WEST NORTH CENTRAL	9	59	3	28	3	-	17	18	42	91	810	653
Minnesota	1	5	-	15	-	-	-	2	4	25	257	38
Iowa	6	44	-	1	-	-	4	3	7	18	227	443
Missouri	1	3	-	1	3	-	10	12	23	22	113	26
North Dakota	-	-	-	-	-	-	-	-	-	2	210	125
South Dakota	1	3	-	7	-	-	-	-	-	4	-	21
Nebraska	-	2	3	4	-	-	-	-	4	12	3	-
Kansas	-	2	-	-	-	-	3	1	4	8	NN	NN
SOUTH ATLANTIC	-	-	1	14	4	2	55	40	98	147	1,450	1,272
Delaware	-	-	-	-	-	-	-	-	-	1	26	14
Maryland	-	-	-	-	2	1	22	6	28	17	-	172
District of Columbia	-	-	-	-	-	1	-	2	2	1	-	28
Virginia	-	-	-	1	2	-	4	8	13	32	509	442
West Virginia	-	-	-	1	-	-	12	5	18	16	378	470
North Carolina	-	-	-	1	-	-	11	13	24	53	37	41
South Carolina	-	-	-	3	-	-	-	1	2	6	65	7
Georgia	-	-	1	4	-	-	2	-	2	6	3	5
Florida	-	-	-	4	-	-	4	5	9	15	432	93
EAST SOUTH CENTRAL	-	1	-	8	1	-	59	35	96	137	566	1,650
Kentucky	-	-	-	-	1	-	12	8	22	49	234	420
Tennessee	-	-	-	1	-	-	17	8	25	47	262	1,117
Alabama	-	1	-	7	-	-	20	5	25	17	45	35
Mississippi	-	-	-	-	-	-	10	14	24	24	25	78
WEST SOUTH CENTRAL	1	5	-	10	-	4	37	20	58	65	1,258	4,377
Arkansas	-	2	-	1	-	1	3	1	4	7	99	13
Louisiana	-	-	-	-	-	-	9	4	13	5	13	8
Oklahoma	-	2	-	4	-	-	-	2	2	6	4	180
Texas	1	1	-	5	-	3	25	13	39	47	1,142	4,176
MOUNTAIN	-	1	-	-	-	1	12	3	43	66	1,042	1,202
Montana	-	-	-	-	-	-	7	1	9	5	111	490
Idaho	-	-	-	-	-	-	-	-	5	12	271	43
Wyoming	-	-	-	-	-	-	-	-	-	1	5	-
Colorado	-	-	-	-	-	-	1	-	13	9	276	278
New Mexico	-	-	-	-	-	-	3	-	3	10	NN	NN
Arizona	-	-	-	-	-	1	-	-	10	23	300	195
Utah	-	1	-	-	-	-	1	2	3	6	64	190
Nevada	-	-	-	-	-	-	-	-	-	-	15	6
PACIFIC	-	1	-	1	10	6	74	84	158	170	1,359	2,881
Washington	-	-	-	-	3	-	3	7	10	20	234	931
Oregon	-	-	-	-	-	1	13	8	21	24	175	565
California	-	1	-	1	7	5	58	68	126	114	717	1,326
Alaska	-	-	-	-	-	-	-	-	-	11	25	20
Hawaii	-	-	-	-	-	-	-	1	1	1	208	39
Puerto Rico	-	-	2	5	-	-	13	2	15	21	9	114

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MARCH 23, 1963 AND MARCH 24, 1962 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rcky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	12th wk.	Cumulative 12 weeks	12th week		12th wk.	12th wk.	12th wk.	12th wk.	Cumulative 12 weeks	12th week		Cumulative 12 weeks
	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES	61	691	11,207	8,926	3	-	1	11	76	89	125	783
NEW ENGLAND	4	49	1,276	933	-	-	-	-	3	1	-	1
Maine	-	9	39	277	-	-	-	-	-	-	-	-
New Hampshire	1	2	3	-	-	-	-	-	-	1	-	1
Vermont	-	1	45	96	-	-	-	-	1	-	-	-
Massachusetts	2	20	174	107	-	-	-	-	2	-	-	-
Rhode Island	-	5	79	38	-	-	-	-	-	-	-	-
Connecticut	1	12	936	415	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	10	93	806	607	-	-	-	2	7	4	4	26
New York	2	40	437	308	-	-	-	2	7	1	3	17
New Jersey	3	15	188	117	-	-	-	-	-	-	-	-
Pennsylvania	5	38	181	182	-	-	-	-	-	3	1	9
EAST NORTH CENTRAL	11	116	1,444	1,006	-	-	-	1	5	11	24	94
Ohio	4	31	311	127	-	-	-	-	1	10	12	40
Indiana	1	16	113	209	-	-	-	-	2	1	10	12
Illinois	3	17	208	220	-	-	-	-	1	-	-	17
Michigan	2	36	373	208	-	-	-	-	-	-	1	18
Wisconsin	1	16	439	242	-	-	-	1	1	-	1	7
WEST NORTH CENTRAL	5	40	371	270	1	-	-	-	3	11	36	178
Minnesota	1	8	40	35	1	-	-	-	1	4	7	55
Iowa	1	1	109	96	-	-	-	-	1	3	13	56
Missouri	2	19	16	26	-	-	-	-	1	2	9	34
North Dakota	-	1	170	69	-	-	-	-	-	-	3	2
South Dakota	-	2	-	5	-	-	-	-	-	1	4	27
Nebraska	-	8	1	-	-	-	-	-	-	-	-	1
Kansas	1	1	35	39	-	-	-	-	-	1	-	3
SOUTH ATLANTIC	8	143	881	719	-	-	1	1	15	15	7	144
Delaware	-	1	7	2	-	-	-	-	-	-	-	-
Maryland	1	21	47	26	-	-	-	-	2	-	-	-
Dist. of Columbia	-	3	-	1	-	-	-	-	-	-	-	-
Virginia	1	39	297	328	-	-	-	1	1	5	4	55
West Virginia	-	9	257	163	-	-	-	-	5	7	1	53
North Carolina	3	24	53	33	-	-	-	-	3	-	-	4
South Carolina	-	10	35	74	-	-	-	-	-	2	-	5
Georgia	1	8	33	-	-	-	1	-	1	-	-	3
Florida	2	28	152	92	-	-	-	-	3	1	2	24
EAST SOUTH CENTRAL	6	56	1,424	1,369	1	-	-	1	7	9	15	83
Kentucky	3	20	60	173	-	-	-	1	2	5	5	34
Tennessee	3	25	1,251	1,131	-	-	-	-	4	3	9	40
Alabama	-	7	57	5	-	-	-	-	1	1	1	9
Mississippi	-	4	56	60	1	-	-	-	-	-	-	-
WEST SOUTH CENTRAL	4	71	1,061	1,014	1	-	-	4	18	30	25	158
Arkansas	-	5	10	4	-	-	-	-	7	4	5	11
Louisiana	2	24	6	5	1	-	-	1	4	2	1	20
Oklahoma	-	15	25	14	-	-	-	2	2	2	-	11
Texas	2	27	1,020	991	-	-	-	1	5	22	19	116
MOUNTAIN	3	23	2,464	1,311	-	-	-	-	2	4	1	14
Montana	-	-	50	90	-	-	-	-	-	-	-	-
Idaho	-	-	202	133	-	-	-	-	-	-	-	-
Wyoming	-	1	92	82	-	-	-	-	-	-	-	-
Colorado	2	5	1,283	414	-	-	-	-	1	-	-	-
New Mexico	-	2	445	247	-	-	-	-	1	-	-	5
Arizona	1	5	262	163	-	-	-	-	-	4	1	9
Utah	-	9	130	182	-	-	-	-	-	-	-	-
Nevada	-	1	-	-	-	-	-	-	-	-	-	-
PACIFIC	10	100	1,480	1,697	-	-	-	2	16	4	13	85
Washington	2	11	647	594	-	-	-	-	-	-	-	-
Oregon	-	4	26	36	-	-	-	-	2	-	-	1
California	6	79	731	996	-	-	-	1	13	4	13	84
Alaska	-	4	58	50	-	-	-	-	-	-	-	-
Hawaii	2	2	18	21	-	-	-	1	1	-	-	-
Puerto Rico	-	-	1	7	1	-	-	-	3	-	-	1

Table 4 (D). TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	3/2	3/9	3/16	3/23
NEW ENGLAND:				
Boston, Mass.	194	240	199	187
Bridgeport, Conn.	41	30	35	28
Cambridge, Mass.	31	24	24	30
Fall River, Mass.	36	42	34	25
Hartford, Conn.	46	40	26	29
Lowell, Mass.	16	20	33	21
Lynn, Mass.	28	24	22	20
New Bedford, Mass.	29	29	27	26
New Haven, Conn.	54	30	32	30
Providence, R.I.	47	63	45	34
Somerville, Mass.	19	9	6	9
Springfield, Mass.	31	27	44	23
Waterbury, Conn.	31	24	29	25
Worcester, Mass.	68	54	54	50
MIDDLE ATLANTIC:				
Albany, N.Y.	43	37	30	26
Allentown, Pa.	26	34	29	32
Buffalo, N.Y.	122	103	125	120
Camden, N.J.	32	26	22	43
Elizabeth, N.J.	20	17	26	17
Erie, Pa.	35	26	30	34
Jersey City, N.J.	65	52	44	42
Newark, N.J.	79	47	65	58
New York City, N.Y.	1,198	1,060	1,063	987
Paterson, N.J.	29	19	28	18
Philadelphia, Pa.	403	442	449	354
Pittsburgh, Pa.	167	178	109	129
Reading, Pa.	27	20	21	20
Rochester, N.Y.	99	91	90	76
Schenectady, N.Y.	27	16	24	17
Scranton, Pa.	50	28	32	19
Syracuse, N.Y.	60	55	45	47
Trenton, N.J.	53	42	53	29
Utica, N.Y.	21	20	27	28
Yonkers, N.Y.	16	21	27	24
EAST NORTH CENTRAL:				
Akron, Ohio	54	43	43	45
Canton, Ohio	42	36	36	24
Chicago, Ill.	568	462	560	456
Cincinnati, Ohio	188	150	111	90
Cleveland, Ohio	152	150	156	126
Columbus, Ohio	97	94	103	83
Dayton, Ohio	79	73	62	62
Detroit, Mich.	303	308	240	243
Evansville, Ind.	43	47	38	41
Flint, Mich.	28	31	20	38
Fort Wayne, Ind.	24	43	31	35
Gary, Ind.	19	23	19	27
Grand Rapids, Mich.	32	40	60	32
Indianapolis, Ind.	113	145	132	121
Madison, Wis.	20	17	24	16
Milwaukee, Wis.	101	113	113	98
Peoria, Ill.	21	21	33	16
Rockford, Ill.	32	18	29	24
South Bend, Ind.	26	35	35	22
Toledo, Ohio	78	90	84	95
Youngstown, Ohio	50	47	51	50
WEST NORTH CENTRAL:				
Des Moines, Iowa	50	30	39	45
Duluth, Minn.	23	11	14	15
Kansas City, Kans.	35	21	18	39
Kansas City, Mo.	138	110	101	92
Lincoln, Nebr.	34	18	16	17
Minneapolis, Minn.	105	83	81	91
Omaha, Nebr.	49	40	46	59
St. Louis, Mo.	223	268	206	176
St. Paul, Minn.	53	56	67	62
Wichita, Kans.	24	39	31	43
SOUTH ATLANTIC:				
Atlanta, Ga.	72	90	67	76
Baltimore, Md.	161	157	162	138
Charlotte, N.C.	21	32	10	24
Jacksonville, Fla.	49	23	32	29
Miami, Fla.	56	77	58	57
Norfolk, Va.	31	44	29	29
Richmond, Va.	56	55	52	40
Savannah, Ga.	20	19	25	18
St. Petersburg, Fla.	81	102	81	88
Tampa, Fla.	67	35	60	69
Washington, D.C.	129	97	104	84
Wilmington, Del.	41	26	18	20
EAST SOUTH CENTRAL:				
Birmingham, Ala.	68	74	70	44
Chattanooga, Tenn.	19	44	31	44
Knoxville, Tenn.	25	25	39	34
Louisville, Ky.	61	132	140	148
Memphis, Tenn.	76	93	107	87
Mobile, Ala.	31	26	24	23
Montgomery, Ala.	31	27	23	22
Nashville, Tenn.	46	48	62	56
WEST SOUTH CENTRAL:				
Austin, Tex.	30	28	35	37
Baton Rouge, La.	6	18	24	17
Corpus Christi, Tex.	9	8	13	9
Dallas, Tex.	83	87	84	76
El Paso, Tex.	13	16	17	19
Fort Worth, Tex.	35	62	43	39
Houston, Tex.	103	94	106	143
Little Rock, Ark.	36	32	50	58
New Orleans, La.	118	149	130	114
Oklahoma City, Okla.	72	67	64	38
San Antonio, Tex.	60	82	77	72
Shreveport, La.	33	31	48	35
Tulsa, Okla.	25	52	31	57
MOUNTAIN:				
Albuquerque, N. Mex.	19	21	29	11
Colorado Springs, Colo.	15	13	10	17
Denver, Colo.	63	64	71	85
Ogden, Utah	10	8	7	9
Phoenix, Ariz.	58	65	52	80
Pueblo, Colo.	10	8	6	7
Salt Lake City, Utah	31	31	31	26
Tucson, Ariz.	31	23	37	43
PACIFIC:				
Berkeley, Calif.	21	10	14	10
Fresno, Calif.	20	39	25	25
Glendale, Calif.	26	21	30	21
Honolulu, Hawaii	28	20	15	18
Long Beach, Calif.	34	35	30	38
Los Angeles, Calif.	300	297	316	311
Oakland, Calif.	51	49	70	92
Pasadena, Calif.	29	25	31	17
Portland, Oreg.	68	76	77	74
Sacramento, Calif.	35	41	31	36
San Diego, Calif.	60	45	54	43
San Francisco, Calif.	132	117	133	131
San Jose, Calif.	28	28	23	28
Seattle, Wash.	76	87	83	74
Spokane, Wash.	49	30	26	32
Tacoma, Wash.	31	22	30	28
San Juan, P.R.	5	8	16	9

Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages..... 13,422
4(B) Pneumonia-Influenza Deaths, all ages..... 957
4(C) Total Deaths under 1 Year of Age..... 757
4(D) Total Deaths, Persons 65 years and over..... 7,758

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Notes: These provisional data are based on weekly telegrams to the Communicable Disease Center by the individual State health departments.

Symbols: --- Data not available
- Quantity zero

Procedures for construction of various mortality curves may be obtained from Statistics Section, Communicable Disease Center, Public Health Service, U. S. Department of Health, Education, and Welfare, Atlanta 22, Georgia.

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta 22, Georgia

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